

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/051572

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E21B33/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 385 367 A (PAUL KOLLSMAN) 28 May 1968 (1968-05-28) column 9, line 5 - line 18; figures 13-15	1-20
A	WO 03/008756 A (SHELL CANADA LTD ; BOSMA MARTIN GERARD RENE (NL); CORNELISSEN ERIK KER) 30 January 2003 (2003-01-30) cited in the application the whole document	1, 14
A	US 5 195 583 A (BELSHAW DOUGLAS J ET AL) 23 March 1993 (1993-03-23) the whole document	1, 18
A	WO 02/059452 A (THOMSON NEIL ; E2 TECH LTD (NL)) 1 August 2002 (2002-08-01) the whole document	1, 18
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

10 December 2004

Date of mailing of the international search report

22/12/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 4 936 386 A (COLANGELO ROBERT V) 26 June 1990 (1990-06-26) the whole document</p> <p>-----</p>	1,18

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3385367	A	28-05-1968	NONE	
WO 03008756	A	30-01-2003	BR 0211253 A CA 2453660 A1 WO 03008756 A1 EP 1407113 A1	27-07-2004 30-01-2003 30-01-2003 14-04-2004
US 5195583	A	23-03-1993	GB 2248255 A CA 2052308 A1	01-04-1992 28-03-1992
WO 02059452	A	01-08-2002	CA 2435382 A1 WO 02059452 A1 GB 2388136 A NO 20033338 A US 2004194971 A1	01-08-2002 01-08-2002 05-11-2003 17-09-2003 07-10-2004
US 4936386	A	26-06-1990	US 4919989 A	24-04-1990